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Application Number	Filed
08/862,610	5/23/97

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(12) **United States Patent**
Bridgham et al.

(10) **Patent No.: US 6,806,052 B2**
(45) **Date of Patent: Oct. 19, 2004**

(54) **PLANAR ARRAYS OF MICROPARTICLE-BOUND POLYNUCLEOTIDES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 73 days.

(21) Appl. No.: **10/124,884**

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(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 09/424,028, filed as application No. PCT/US98/11224 on May 22, 1998, now Pat. No. 6,406,848, which is a continuation of application No. 08/862,610, filed on May 23, 1997, now abandoned.

(51) **Int. Cl.**[7] **C12Q 1/68**; C12M 1/12; C12M 3/00; C12M 1/14; C07H 21/00

(52) **U.S. Cl.** **435/6**; 435/288.3; 435/297.5; 435/299.1; 536/22.1

(58) **Field of Search** 435/6, 288.3, 297.5, 435/299.1; 536/22.1

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(57) **ABSTRACT**

An apparatus and system are provided for simultaneously analyzing a plurality of analytes anchored to microparticles. Microparticles each having a uniform population of a single kind of analyte attached are disposed as a substantially immobilized planar array inside of a flow chamber where steps of an analytical process are carried out by delivering a sequence of processing reagents to the microparticles by a fluidic system under microprocessor control. In response to such process steps, an optical signal is generated at the surface of each microparticle which is characteristic of the interaction between the analyte carried by the microparticle and the delivered processing reagent. The plurality of analytes are simultaneously analyzed by collecting and recording images of the optical signals generated by all the microparticles in the planar array. A key feature of the invention is the correlation of the sequence of optical signals generated by each microparticle in the planar array during the analytical process.

3 Claims, 10 Drawing Sheets